SCOPE OF WORK
OPERATION CLEAN SWEEP, PHASE 1
Annette Island, Alaska

NEPA Requirements
Data Management
Site Closure Documentation
Site Preparation Plans
Site Characterization Plans
Monitoring Well Sampling Plan
Confined Space Sampling Plan
VORTAC Technical Memorandum

VERSION 1.4
Amended 6/7/01

PURPOSE:
Establish a multi-phased task order/delivery order that will allow the attached list of Federal Aviation Administration, Alaskan Region (FAA) Comprehensive Coordinated Cleanup (C3) Plan sites at Annette Island, Alaska to achieve a status of "No Further Remedial Action Planned" or "Site Closure" from the Metlakatla Indian Community, and allow the property to be transferred/accepted by the Department of Interior, Bureau of Indian Affairs. Phase 1 is the development of "performance plans" (site preparation and site characterization), Phase 2 will be the implementation (field work) of the "performance plans". Phase 1also includes a task for Data Management (C-3 Database update and the development of electronic AutoCAD mapping system), NEPA requirements, site closure documentation, monitoring well sampling plan, confined space sampling plan, and a VORTAC technical memorandum.

All performance plans need to be completed (accepted by the FAA and the MIC) by February 1, 2002. Fieldwork for Phase 2 is tentatively scheduled to begin during May or June 2002

TRAVEL:
Travel requirements will be identified specific to each Phase, Task or subtask.

SECURITY CLEARANCE:
Security clearances are not required for this activity.

SCOPE OF WORK:
This project is anticipated to be a multi-year, multiple phase project, phases, tasks or subtasks being awarded based upon annual funding levels.

Phase 1: Phase 1 must be completed during calendar year 2001 to allow for Phase 2 work to be accomplished as identified in the section SCHEDULE.

- Task 1: Site Visit

1. Contractor shall travel to Annette Island and conduct a comprehensive inventory of debris at the Federal Aviation Administration, Alaskan Region (FAA) C3 Plan site on Annette Island, Alaska. Debris includes but is not limited to: buildings, slabs, foundations, vehicles, tower, concrete bases, power/communication cables,

fencing, piping, tanks, utilidors, water lines, sewer lines and fuel pipeline. Contractor shall inventory all utilities mentioned above, including portions not inside the "site" boundaries.

2. Contractor shall identify all "waste streams" that will require disposal at facilities other than the Annette Island, Alaska Municipal Landfill.

3. Contractor shall identify potential recycling opportunities for creosoted timbers in the Juneau, Ketchikan and/or Seattle area. Otherwise contractor shall make arrangements for disposal of creosoted timbers as identified in TASK 1, Subtask 2.

◆ TASK 2: NEPA REQUIREMENTS

1. Contractor shall develop an Island Wide Programmatic Agreement with the State Historic Preservation Officer (SHPO). An addendum to the Programmatic Agreement shall identify each facility, structure or feature that must be mitigated prior to demolition, and required mitigation steps for each.

2. Contractor shall develop photographs, drawings and other material necessary to meet the mitigation requirements of the Programmatic Agreement for each site.

3. Contractor shall review a memorandum from the National Archives dated June 6, 1996 identifying possible locations of records related to activities at Annette Island, Alaska. Memorandum not attached.

4. Contractor shall at a minimum travel to the National Archives in Anchorage, Alaska; Portland, Oregon; and Washington D.C.:

    a. Contractor shall review information (photographs, maps, drawings and documents) regarding FAA and United States Army use of Annette Island;

b. Contractor shall obtain copies of those documents that contain information related to property transfers, leases, sub-leases or may otherwise be related to potentially responsible party (PRP) identification;

5. Based upon review of information obtain while at the National Archives in Washington D.C., the contractor shall determine if additional time is required to review records available from the United States Army or United States Navy. Contractor shall coordinate additional time in D.C. with the COTR.

6. The contractor shall travel to Yakutat, Alaska and obtain Historic Architectural Building Standard (HABS) black and white, 35 mm photographs of the SBRAZ range.

7. The contractor shall either locate as-builts for a SALSR or locate an existing SALSR of the same vintage as the SALSR that was located at Annette Island, Alaska travel to it and develop HABS Level 1 architectural drawings.

8. Contractor shall develop an Environmental Assessment with Finding of No Significant Impact (EA/FONSI) for all FAA site covered by the Programmatic Agreement.

    a. Contractor shall include an addendum to the EA/FONSI that identifies the Categorical Exclusion for all FAA sites not covered by the Programmatic Agreement;

    b. Contractor shall conduct all required notifications, manage the EA/FONSI comment period, collect all comments and develop a draft "Response to Comment" summary document for FAA review;

    c. Contractor shall prepare a final "Response to Comment" summary document upon receipt of FAA comments on the draft.

◆ TASK 3: ADMINISTRATIVE SUPPORT:

1. Contractor shall maintain and update the C3 database to incorporate project updates, schedule changes, and reflect on-going activities at each site. The database is a Microsoft Access 1997 database, developed by Jacobs Engineering Group, Inc., and will be provided to the contractor via Compact Disc (CD).

2. Contractor shall develop a template for obtaining "Site Closure" from the Metlakatla Indian Community (MIC). Contractor shall submit the "draft" template to FAA and MIC for a 45-day review and comment period. Contractor shall collect comments from both FAA and MIC, prepare a technical memorandum responding to the comments received and prepare a "final" Site Closure template for distribution to FAA and MIC. The Contractor shall prepare site closure documentation for approximately 19 sites (see **Attachment A**, PROPOSED PHASE 1 PRIORITIES AND PROPOSED PHASE 2 ACTIVITIES). Closure sampling will occur during Phase 2, if additional sampling is required.

3. The Contractor shall provide electronic support for the development and population of a "AutoCAD mapping system". AutoCAD maps will be prepared for the management of laboratory data, real estate lease boundaries, plume locations, hot spots, monitoring well locations, etc. The AutoCAD mapping system will be developed in coordination with input from the COE, USCG, BIA, FAA, EPA, Chevron, MIC, and other potential responsible parties. FAA will provide IT support for the design of the system.

◆ TASK4: PERFORMANCE PLAN DEVELOPMENT:

1. Contractor shall prepare a Performance Plan outlining the contractor's proposal for completing Phase 2 of the project. **Attachment A**, PROPOSED PHASE 1 PRIORITIES AND PROPOSED PHASE 2 ACTIVITIES shall be used as guidance for development of the Performance Plans. Performance Plans may include;

   a. Site Preparation Plans (72 sites)

   b. Site Characterization Plans (5 plans)

c. Monitoring Well Sampling Plan

2. Site Preparation Plans shall include:

   a. Proposed methods for removing each item identified in **Attachment B**, FY02 FAA SITE PREPARATION LIST, including labor and or equipment required, laborers and/or equipment hours required;

   b. Proposed disposal methodology for each item identified in paragraph a, including categorizing each item into a particular "waste stream", and the estimated the volume preferably in cubic yards) of each waste stream;

   c. Sampling for site closure documentation shall be conducted.

   d. A project schedule identifying the estimated duration to complete the debris removal phase of the project at each site, and as a complete activity shall be developed.

3. Site Characterization Plans shall include:

   a. A Sampling and Analysis Plan (SAP) that complies with the QAPP and;
      i. Establishing an on-site laboratory and/or identifies methods to provide field crews with real-time using off-site laboratory analysis;
      ii. Identifies each site that meets current "regulatory cleanup" guidance;
      iii. Identifies sampling and analysis methods proposed for each site after the building, structure, foundation, etc., has been removed;
      iv. Identifies proposed sampling and analysis methods for site FAA may have "cleared" during previous site activities;

v. Identifies for each site, whether the purpose of the sampling is to obtain closure, fill in existing data gaps, or if it is the initial sampling event at the site;
vi. Identifies the necessity for installation of any groundwater monitoring wells or probes, the estimated depth for each well/probe, the analytical regime to be conducted for each probe or well, and provides a map of each site with proposed well locations.

b. The site characterization report (part of Phase 2) shall include maps, with cross sections, of each site showing the estimated area and depth to be excavated to comply with MIC cleanup regulations.

c. The site characterization report (part of Phase 2) shall contain a Soil Management Plan (SMP) including a soil stockpile plan, if long term stockpiling is anticipated; a proposed soil treatment methodology; a map identifying the proposed location of long-term soil stockpiles and/or a soil treatment cell; a sampling and analysis plan for the treatment cell; proposed soil clearance levels (when is the soil "clean"); and a proposed schedule identifying sampling events, soil rotations, nutrient additions, or other activities required to meet MIC cleanup regulations.

d. A project schedule for site characterization shall be developed and identify;

i. Estimated duration to complete sampling at each site and as a complete activity;
ii. Critical path based upon interaction of each of the activities identified above.

e. The Site Characterization report (part of Phase 2) shall contain the following:

i. Estimated duration to complete excavations per site and as a complete activity;
ii. Estimated duration of soil treatment activities;
iii. Estimated duration of Long-Term Monitoring at each site and as a completed activity;

4. Contractor shall develop a Sampling and Analysis Plan (SAP) for conducting sampling at C3 Plan Site 90A, former location of 800 empty drums. Site 90A shall be a site characterization plan.

   a. Contractor shall review the Annette Island, Alaska Quality Assurance Project Plan (QAPP).

   b. Contractor shall plan to obtain pre-prepared sample containers for taking:
      i. Method AK101 (gasoline range organic) soil samples;
      ii. Method AK102 (diesel range organic) soil samples;
      iii. Method AK103 (residual range organic) soil samples;
      iv. Volatile Organic Carbon soil samples;
      v. Polychlorinated Biphenyl and Pesticide soil samples;
      vi. Method 8310, Polynuclear Aromatic Hydrocarbon (PAH) soil samples.

   c. Contractor shall determine the number of Quality Assurance/Quality Control samples and "blanks" necessary to comply with the QAPP.

   d. Contractor shall make all sample shipping requirements necessary to comply with storage and temperature requirements identified in the QAPP.

5. Contractor shall determine sampling protocols necessary to develop a "waste profile" for the "Plank Road" as well as developing a site characterization plan for the "Plank Road", Site 34:

a. Contractor shall propose the number of samples necessary to representatively identify/profile the "Plank Road" and comply with the QAPP.

b. Contractor shall develop a SAP for taking the number and types of samples identified in paragraph 5(a).

6. Contractor shall develop a SAP for the approximately 100 assorted groundwater monitoring wells and groundwater probes located at various sites around Annette Island, Alaska. Rough locations for these wells and probes may be obtained form the 2001 CH2M Hill, Inc., Annette Island, Alaska Site Investigation.

    a. Contractor shall review the Summer 2000 CH2M Hill Site Investigation Report (CH2M SI) to determine areas where contamination was detected and sampling may be required.

    b. Contractor shall review the Annette Island, Alaska Quality Assurance Project Plan (QAPP).

    c. Contractor shall determine the number and types of analysis required based upon their review of the CH2M SI and shall propose to the FAA in a Technical Memorandum, the number and types of samples that should be taken;

    d. Contractor shall determine the number of Quality Assurance/Quality Control samples and include the information in the Technical Memorandum in Paragraph 6(c).

7. Contractor shall identify all confined spaces (manholes, septic tanks, dry wells (see bldg 240), vaults, etc.) present at FAA C3 Plan sites on Annette Island, Alaska.

    a. Contractor shall review Ridolfi Engineering, Inc., Limited Preliminary Assessment for Annette Island, Alaska for information on previous sampling of septic systems and dry wells;

b. Contractor shall develop a SAP for conducting sampling of the contents of these confined spaces, necessary to develop a "waste profile".

◆ TASK 5: PROGRAMMING COST ESTIMATE

1. Contractor shall develop a cost estimate for removal of all facilities, structures and debris identified in TASK 1. Cost estimate will be built using the following assumptions:

   a. Concrete wastes shall be disposed of in the Metlakatla Indian Community Concrete Disposal Area;

   b. Scrap metal will be sent to a scrap steel recycler;

   c. That wood debris shall be disposed of in an off-site landfill;

   d. Creosoted timbers shall be disposed of in an off-site landfill;

   e. Laboratory analysis for petroleum related compounds, and Polychlorinated Biphenyls shall be conducted using an on-site laboratory, and that the on-site laboratory will need to achieve "certification";

   f. Analysis for which the on-site lab cannot achieve certification will be conducted at an off-site laboratory requiring short (72 hour) turnaround;

   g. All contaminated soils and soils containing "asphalt/tars" shall be excavated to at least the groundwater table;

   h. All lead-shielded cable removed by the contractor shall become the property of the contractor and may be sold to lead/metal recyclers such as "Kinsbursky Brothers, Inc." in Anaheim, California. Contractor shall identify

cost savings/benefit associated with this potential recycle;

- TASK 6: VORTAC LEAD BASED PAINT (LBP) CONTAMINATED SOILS TECHNICAL MEMORANDUM

1. Contractor shall review all currently existing documentation of lead contamination at the Annette Island VORTAC. In particular the contractor shall review:

    a. Environmental Compliance Investigation Report for Annette Island, prepared by Ecology and Environment, 1991

    b. Site Cleanup and Investigation Report Annette Island Station, prepared by Ecology and Environment, May 1995

2. Contractor shall develop a SAP for conducting sampling necessary to identify LBP coated surfaces at the Annette Island VOR. Contractor shall include the SAP in a Technical Memorandum, identifying any data gaps found during review of the information regarding the site. SAP will address filling any identified data gaps.

3. Contractor shall review existing remedial technologies that may be applicable for treating soils on-site at the Annette Island VORTAC. At a minimum the contractor shall review:

    a. Soil Screening

    b. Capping

    c. On-Site Soil Washing

    d. Removal and Off-Site Disposal

    e. No Action

4. Contractor shall identify remedial alternatives that will meet currently identified cleanup goals.

5. Contractor shall screen each remedial technology for:

    a. Effectiveness: " ...the degree to which an alternative reduces toxicity, mobility or volume through treatment, minimizes residual risks and affords long-term protection, complies with ARARs, minimizes short-term impacts, and how quickly it achieves protection. Alternatives providing significantly less effectiveness than other, more promising alternatives may be eliminated. Alternatives that do not provide adequate protection of human health and the environment shall be eliminated from further consideration."

    b. Implementability: "...the technical feasibility and availability of the technologies each alternative would employ and the administrative feasibility of implementing the alternative. Alternatives that are technically or administratively infeasible or that would require equipment, specialists, or facilities that are not available within a reasonable period of time may be eliminated from further consideration."

    c. Cost: "...The costs of construction and any long-term costs to operate and maintain the alternative shall be considered. Costs that are grossly excessive compared to the overall effectiveness of alternatives may be considered as one of several factors used to eliminate alternatives. Alternatives providing effectiveness and implementability similar to that of another alternative by employing a similar method of treatment or engineering control, but at greater cost, may be eliminated."

6. The contractor shall prepare detailed cost estimates for each technology discussed. Each cost estimate the contractor develops shall include a cost (to be detailed in the first cost estimate and then referenced thereafter) for conducting a full lead based paint abatement of the VORTAC and it's antenna. The LBP

abatement cost shall include costs for repainting with a corrosion resistant paint.

7. Contractor shall prepare a cost estimate and proposed scope necessary to complete a "pilot study(s)" required to field test the proposed remedial alternative identified in the feasibility study report.

8. Contractor shall present all information regarding review of possible remedial technologies, ability to meet existing cleanup goals, effectiveness, implementability and all cost estimates in a Draft Technical Memorandum.

9. Contractor shall allow 30 days for FAA review of the Technical Memorandum. Contractor shall collect FAA comments, identify action taken on each comment and, if agreed to, incorporate comments into a Final Technical Memorandum.

10. Contractor shall provide the Final Technical Memorandum no later than 30 days after close of comment period.

◈ TASK 7: PHASE 1 DELIVERABLES (minimum requirement):

1. Sampling and Analysis Plan (SAP) including number and types of samples to be taken from the approximately 100 Monitoring Wells/Probes at Annette Island, Alaska.

2. SAP for sampling at site 90A, and the "Plank Road".

3. A list of all "waste streams" identified, and a SAP indicating sampling that will be necessary to developing and obtaining approval of "waste profiles" for each "waste stream".

4. A list of identified confined spaces, and an AutoCAD 14/2000 compatible map identifying the location of each confined space. Map shall be supplied on a compact disc (CD) in a *.DWG format.

5. Draft and Final Programmatic Agreement for compliance with 40 CFR 106.

6. Addendum to the Programmatic Agreement, identifying each facility, structure or feature that must be mitigated and the specific mitigation that must be conducted.

7. Draft and Final documentation necessary to meet the stipulated requirements of the Programmatic Agreement developed in TASK 2.

8. Copies of documents, maps and photos located in the National Archives.

9. As-built and/or HABS Level 1drawings of a SALSR, as identified in TASK 2.

10. Black and White, 35 mm photographs meeting HABS requirements of the Yakutat, Alaska SBRAZ.

11. Draft and Final Environmental Assessment (EA)/Finding of No Significant Impact (FONSI) for all sites covered by the Programmatic Agreement.

12. Draft and Final Categorical Exclusion for all FAA Sites not covered by the Programmatic Agreement.

13. Draft and Final Response to Comment Summary Reports for comments received on the EA/FONSI.

14. Draft and Final Site Closure Templates.

15. Draft and Final "Performance Plans" (Site Preparation Plans and Site Characterization Plans) including Programmatic Cost Estimates identified in TASKS 4 and 5. This plan shall be delivered in a bound format, with work items applicable to the entirety of the Annette Island project identified under a "General Work Plan" tab. Site Characterization Plans and Site Preparation Plans from Paragraph 4 (d), specific to each C3 site shall be included under separate tabs. Programmatic Cost Estimate information shall be provided as an overview under the "General Work Plan" tab and site specific costs shall be included under the pertinent tab.

16. Draft and Final Technical Memorandum as identified in TASK 6

17. Project schedule showing deliverable dates.